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PLACET3: 6D tracking through PETS and accelerating structures wakefields

Wednesday, 10 May 2023 16:30 (2 hours)

We present the latest updates to the PLACET3 tracking package which focus on the impact of both transverse and longitudinal wakefields on a beam travelling through accelerating and decelerating structures. The main focus of this update was the first implementation of 6D tracking through Power Extraction and Transfer Structures (PETS) for the Compact Linear Collider (CLIC) which is described through short and long-range longitudinal wakefields. Additionally, we present the impact of different numerical schemes on the computation of wakefields in accelerating structures.

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Footnotes

I have read and accept the Privacy Policy Statement

Yes

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